

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
6 January 2005 (06.01.2005)

PCT

(10) International Publication Number  
**WO 2005/000968 A2**

(51) International Patent Classification<sup>7</sup>: **C08L 95/00**

Frontier Building, 2-3-2 Daiba, Minato-ku, Tokyo, Tokyo  
135-8074 (JP).

(21) International Application Number:  
PCT/EP2004/051220

(22) International Filing Date: 24 June 2004 (24.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2003-181786 25 June 2003 (25.06.2003) JP  
2004-046934 23 February 2004 (23.02.2004) JP

(71) Applicant (for all designated States except US): SHELL  
INTERNATIONALE RESEARCH MAATSCHAPPIJ  
B.V. [NL/NL]; Carel van Bylandtlaan 30, NL-2596 HR  
The Hague (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): FUJITANI, Atsushi  
[JP/JP]; Daiba Frontier Building, 2-3-2 Daiba, Minato-ku,  
Tokyo, Tokyo 135-8074 (JP). HIRAYAMA, Hayato  
[JP/JP]; Daiba Frontier Building, 2-3-2 Daiba, Minato-ku,  
Tokyo, Tokyo 135-8074 (JP). KOBAYASHI, Takayuki  
[JP/JP]; Daiba Frontier Building, 2-3-2 Daiba, Minato-ku,  
Tokyo, Tokyo 135-8074 (JP). SEO, Akira [JP/JP]; Daiba

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

**Published:**

— without international search report and to be republished  
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: ASPHALT-EPOXY RESIN COMPOSITIONS

(57) Abstract: An asphalt-epoxy resin composition which contains in the indicated proportions (A) from 75 to 93 wt% asphalt, (B) from 1 to 5 wt% epoxy resin and (C) from 6 to 20 wt% maleic acid modified thermoplastic polymer wherein the total amount of (A) + (B) + (C) is 100 wt%, and wherein the aforementioned epoxy resin (B) is a ternary copolymer comprising (i) lower (x-olefin, (ii) lower alkyl acrylate or methacrylate and (iii) glycidyl acrylate or glycidyl methacrylate, and the molecules have terminal glycidyl groups.

WO 2005/000968 A2